

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-6 (Canceled).

Claim 7 (Previously Presented): A molded article, obtained by molding a resin composition into a desired shape and thereafter exposing the same to an active energy ray to carry out a crosslinking reaction, the resin composition comprising an addition polymerization block copolymer (I) and a polyolefin resin (II), wherein:

the addition polymerization block copolymer (I) is selected from the group consisting of block copolymers comprising at least one polymer block A and at least one polymer block B, and the hydrogenated products thereof;

the polymer block A comprising an aromatic vinyl compound unit comprising at least 1% by mass of an alkylstyrene-derived structural unit (a) in which at least one alkyl group having 1 to 8 carbon atoms is bound to a benzene ring; the polymer block B comprising a conjugated diene compound unit; and

at least the moiety of polymer block A can undergo crosslinking upon exposure to an active energy ray,

wherein the polyolefin resin (II) is selected from the group consisting of high density polyethylene, middle density polyethylene, low density polyethylene, polypropylene, ethylene-propylene copolymer, or ethylene- α -olefin copolymer, and

the addition polymerization block copolymer (I) and the polyolefin resin (II) are present in a mass ratio of 90/10 to 1/99.

Claim 8 (Previously Presented): The molded article according to claim 7, wherein the alkylstyrene-derived structural unit (a) in which the at least one alkyl group having 1 to 8 carbon atoms that is bound to a benzene ring is a p-methylstyrene unit.

Claim 9 (Previously Presented): The molded article according to claim 7, wherein the active energy ray is an electron beam.

Claim 10 (Previously Presented): The molded article according to claim 8, wherein the active energy ray is an electron beam.

Claim 11 (Previously Presented): The molded article according to claim 7, wherein the resin composition further comprises a photopolymerization initiator.

Claim 12 (Previously Presented): The molded article according to claim 8, wherein the resin composition further comprises a photopolymerization initiator.

Claim 13 (Previously Presented): The molded article according to claim 9, wherein the resin composition further comprises a photopolymerization initiator.

Claim 14 (Previously Presented): The molded article according to claim 10, wherein the resin composition further comprises a photopolymerization initiator.

Claims 15-22 (Canceled).

Claim 23 (Previously Presented): The molded article according to claim 7, wherein the polymer block A additionally comprises an aromatic vinyl compound unit comprising at least one of styrene and α -methylstyrene.

Claim 24 (Previously Presented): The molded article according to claim 7, wherein the polymer block A comprises at least 40% by mass of said alkylstyrene-derived structural unit (a).

Claim 25 (Previously Presented): The molded article according to claim 7, wherein the polymer block A is present in said addition polymerization block copolymer (I) in an amount of 10 to 40% by mass.

Claim 26 (Previously Presented): The molded article according to claim 7, wherein the conjugated diene compound of polymer block B comprises at least one butadiene and isoprene.

Claim 27 (Previously Presented): The molded article according to claim 7, wherein the addition polymerization block copolymer (I) has a number-average molecular weight of from 40,000 to 300,000.

Claim 28 (Canceled).

Claim 29 (Previously Presented): The molded article according to claim 7, wherein the addition polymerization block copolymer (I) and the polyolefin resin (II) are present in a mass ratio of 80/20 to 20/80.

Claim 30 (Canceled).

Claim 31 (New): A molded article, obtained by molding a resin composition into a shape and thereafter exposing the shape to an active energy ray to crosslink the resin composition, wherein the resin composition comprises an addition polymerization block copolymer (I) and a polyolefin resin (II), wherein:

the addition polymerization block copolymer (I) is at least one copolymer selected from the group consisting of a block copolymer comprising at least one polymer block A and at least one polymer block B and a hydrogenated product thereof;

the polymer block A comprises an aromatic vinyl compound unit comprising at least 1% by mass of an alkylstyrene-derived structural unit (a) in which at least one alkyl group having 1 to 8 carbon atoms is bound to a benzene ring; and the polymer block B comprises a conjugated diene compound unit; and

at least the moiety of polymer block A can undergo crosslinking upon exposure to an active energy ray,

wherein the polyolefin resin (II) is at least one polyolefin selected from the group consisting of a high density polyethylene, a middle density polyethylene, a low density polyethylene and an ethylene- α -olefin copolymer, and

the addition polymerization block copolymer (I) and the polyolefin resin (II) are present in a mass ratio of 90/10 to 1/99.

Claim 32 (New) The molded article according to claim 31, wherein the alkylstyrene-derived structural unit (a) in which the at least one alkyl group having 1 to 8 carbon atoms that is bound to a benzene ring is a p-methylstyrene unit.

Claim 33 (New): The molded article according to claim 31, wherein the active energy ray is an electron beam.

Claim 34 (New): The molded article according to claim 32, wherein the active energy ray is an electron beam.

Claim 35 (New): The molded article according to claim 31, wherein the resin composition further comprises a photopolymerization initiator.

Claim 36 (New): The molded article according to claim 32, wherein the resin composition further comprises a photopolymerization initiator.

Claims 37 (New): The molded article according to claim 31, wherein the polymer block A further comprises an aromatic vinyl compound unit comprising at least one of styrene and α -methylstyrene.

Claims 38 (New): The molded article according to claim 31, wherein the polymer block A comprises at least 40% by mass of said alkylstyrene-derived structural unit (a).

Claims 39 (New): The molded article according to claim 31, wherein the polymer block A is present in said addition polymerization block copolymer (I) in an amount of 10 to 40% by mass.

Claims 40 (New): The molded article according to claim 31, wherein the conjugated diene compound of polymer block B comprises at least one butadiene and isoprene.

Claims 41 (New): The molded article according to claim 31, wherein the addition polymerization block copolymer (I) has a number-average molecular weight of from 40,000 to 300,000.

Claim 42 (New): The molded article according to claim 31, wherein the addition polymerization block copolymer (I) and the polyolefin resin (II) are present in a mass ratio of 80/20 to 20/80.

Claim 43 (New): The molded article according to claim 31, wherein the polyolefin resin (II) is at least one polyolefin selected from the group consisting of a high density polyethylene, a middle density polyethylene and a low density polyethylene.

Claim 44 (New): A method for making a molded article, comprising:
molding a resin composition into a desired shape; then, after the molding
crosslinking the resin composition by exposing the resin composition to an active energy ray;

wherein the resin composition comprises an addition polymerization block copolymer (I) and a polyolefin resin (II);

wherein the addition polymerization block copolymer (I) is a block copolymer comprising at least one polymer block A and at least one polymer block B, and the hydrogenated products thereof;

wherein the polymer block A comprises an aromatic vinyl compound unit comprising at least 1% by mass of an alkylstyrene-derived structural unit (a) in which at least one alkyl group having 1 to 8 carbon atoms is bound to a benzene ring, and the polymer block B comprises a conjugated diene compound unit;

wherein at least the alkylstyrene-derived structural unit (a) of the polymer block A can undergo crosslinking upon exposure to an active energy ray;

wherein the polyolefin resin (II) is at least one selected from the group consisting of a high density polyethylene, a middle density polyethylene, a low density polyethylene, a polypropylene, an ethylene-propylene copolymer, and an ethylene- α -olefin copolymer; and

wherein the addition polymerization block copolymer (I) and the polyolefin resin (II) are present in a mass ratio of 90/10 to 1/99.